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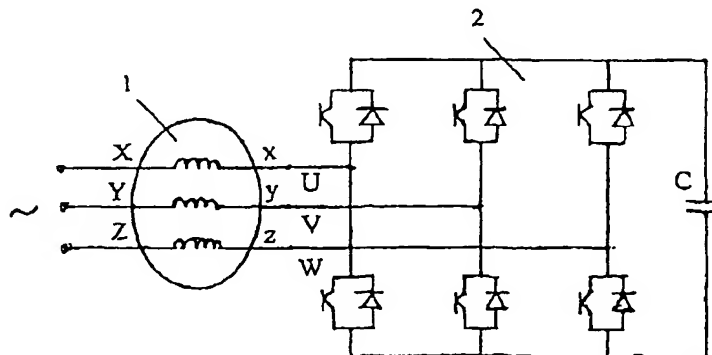
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- (71)(72) 发明人/申请人: 吴加林(WU, Jialin) [CN/CN];
中国四川省成都市武侯区科华巷5号3单元3号,
Sichuan 610000 (CN).
- (74) 代理人: 中国专利代理(香港)有限公司(CHINA
PATENT AGENT (H.K.) LTD.); 中国香港湾仔港
湾道23号广君中心22字楼, Hong Kong (CN).
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(54) Title: THE THREE-PHASE AC SPEED ADJUSTABLE MOTOR

(54) 发明名称: 三相交流变速电机



(57) Abstract: Three-phase AC speed adjustable motor, relates speed adjusting techniques in the field of electrical engineering. Said three-phase AC speed adjustable motor is composed of an AC motor and a counter electromotive force generator which is connected with one end of the three stator windings of the AC motor, wherein the output voltage, output current and their phases of the counter electromotive force generator are variable. Instead of adjusting the speed of the motor by returning energy back to the network in prior art, it applies a counter electromotive force to the motor as to counteract a part of motor's energy and to control the magnitude of the DC voltage as to alter ideal no-load angular speed. By these techniques described above, the speed of motor is adjusted. Compared with the prior art, there isn't the part which gets energy from the motor and return to the network, therefore energy is saved and various undesirable influences to the network can be avoid. Its construction is more simple and more easily to make, so the cost is greatly reduced.

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(57) 摘要

三相交流变速电机，涉及电机电工领域里的电机调速技术。所述的三相交流变速电机由一交流电机本体和与交流电机本体的三个定子绕组的一端相接的直流电压可变、输出电压可变、输出相位可变的反相电动势发生器所构成。将原来的从电机取出能量返回电网的调速方式改为向电机施加一个反相电动势以抵消一部份电机的能量和控制直流电压的大小来改变理想空载角速度的工作方式来达到调速。较之原有方案少了从电机取出能量又返回电网的换级环节，节约了能源，还避免了对电网的各种不良影响，结构更为简单，制作更加容易，制造和使用成本大大降低。